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File: USPT

May 9, 2000

US-PAT-NO: 6061794
DOCUMENT-IDENTIFIER: US 6061794 A

TITLE: System and method for performing secure device communications in a peer-to-peer bus architecture

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Angelo; Michael F.	Houston	TX		
Olarig; Sompong P.	Cypress	TX		
Wooten; David R.	Spring	TX		
Driscoll; Dan J.	Spring	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Compaq Computer Corp.	Houston	TX			02

APPL-NO: 08/ 940551 [PALM]
DATE FILED: September 30, 1997

INT-CL: [07] G06 F 12/14

US-CL-ISSUED: 713/200, 713/201, 380/23, 380/25, 380/4
US-CL-CURRENT: 713/200, 710/107, 713/160, 713/170, 713/201

FIELD-OF-SEARCH: 713/200, 713/201, 709/225, 380/23, 380/25, 380/4

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4919545</u>	April 1990	Yu	380/23
<input type="checkbox"/> <u>5390351</u>	February 1995	Di Giulio et al.	709/225
<input type="checkbox"/> <u>5530701</u>	June 1996	Stillman et al.	370/410
<input type="checkbox"/> <u>5551066</u>	August 1996	Stillman et al.	455/69
<input type="checkbox"/> <u>5559933</u>	September 1996	Boswell	395/114
<input type="checkbox"/> <u>5568552</u>	October 1996	Davis	380/23
<input type="checkbox"/> <u>5600803</u>	February 1997	Iitsuka et al.	709/225
<input type="checkbox"/> <u>5657445</u>	August 1997	Pearce	713/200
<input type="checkbox"/> <u>5692124</u>	November 1997	Holden et al.	709/225
<input type="checkbox"/> <u>5706431</u>	January 1998	Otto	709/221
<input type="checkbox"/> <u>5724027</u>	March 1998	Shiman et al.	380/25
<input type="checkbox"/> <u>5745678</u>	April 1998	Herzberg et al.	380/4
<input type="checkbox"/> <u>5784464</u>	July 1998	Akiyama et al.	713/201
<input type="checkbox"/> <u>5787175</u>	July 1998	Carter	380/25
<input type="checkbox"/> <u>5787427</u>	July 1998	Benantar et al.	380/25
<input type="checkbox"/> <u>5805880</u>	September 1998	Pearce et al.	713/200
<input type="checkbox"/> <u>5826014</u>	October 1998	Coley et al.	713/201
<input type="checkbox"/> <u>5832228</u>	November 1998	Holden et al.	709/225
<input type="checkbox"/> <u>5841976</u>	November 1998	Tai et al.	709/225
<input type="checkbox"/> <u>5859911</u>	January 1999	Loucks et al.	380/25
<input type="checkbox"/> <u>5889958</u>	March 1999	Willens	713/201
<input type="checkbox"/> <u>5898780</u>	April 1999	Liu et al.	380/25
<input type="checkbox"/> <u>5903721</u>	May 1999	Sixtus	713/201
<input type="checkbox"/> <u>5931947</u>	August 1999	Burns et al.	713/201

OTHER PUBLICATIONS

Stallings, William, Network and Internetwork: Security Principles and Practice, Prentice Hall, Englewood Cliffs, New Jersey, 1995, pp. 1-3.
 Intelligent I/O (I.sub.2 O) Architecture Specification, Draft Revision 1.5, Mar. 1997, pp. 1-1 through 17.

ART-UNIT: 275

PRIMARY-EXAMINER: Beausoleil, Jr.; Robert W.

ASSISTANT-EXAMINER: Hamdan; Wassem

ABSTRACT:

A system and method for performing secure peer-to-peer device communications on an I/O bus, such as a PCI bus, a Fiber Channel bus, an IEEE, 1394 bus or a Universal Serial Bus. The system includes a plurality of intelligent I/O devices, such as intelligent storage devices and/or controllers, communications devices, video devices and audio devices. The I/O devices perform peer-to-peer message and data transfers, thereby bypassing the operating system running on the computer's CPU. The intelligent I/O devices encrypt messages and data before transmitting them on the I/O bus and conversely decrypt the messages and data upon reception. The encryption provides secrecy and/or authentication of the sender. The devices use keys or passwords to encrypt/decrypt the data. The keys are stored in non-volatile memory in the devices and are distributed to the devices by the system BIOS at initialization time. The devices perform access authorization validation using rule sets also distributed by the BIOS at initialization time. The rule sets specify which I/O operations are valid for a peer I/O device to request of a respective I/O device based, preferably, upon the device class/subclasses of the requesting device. In another embodiment, one of the intelligent I/O devices may be a communications

device which serves as a firewall for the I/O bus. In this embodiment, the rule set further includes identification information of the remote machines/devices.

34 Claims, 6 Drawing figures

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L4: Entry 37 of 50

File: USPT

Jul 11, 2000

US-PAT-NO: 6088625

DOCUMENT-IDENTIFIER: US 6088625 A

TITLE: System for transferring assembly data and method therefor

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kellstrom, Jr.; Gary E.	Paterson	NJ	07501-3330	

APPL-NO: 08/ 701877 [PALM]

DATE FILED: August 23, 1996

INT-CL: [07] G06 F 19/00

US-CL-ISSUED: 700/97; 395/500.01, 700/107

US-CL-CURRENT: 700/97; 700/107, 703/1

FIELD-OF-SEARCH: 364/468.01, 364/468.02-468.04, 364/468.09-468.14, 364/512, 364/188, 345/964, 345/500, 345/200.47, 705/29, 700/83, 700/95-98, 700/103-107, 395/500.01, 395/500.02, 395/500, 395/200.47, 709/300, 709/217, 707/102, 707/104, 707/502

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4862376	August 1989	Ferriter et al.	364/468.14
<input type="checkbox"/> 4891785	January 1990	Donohoo	364/900
<input type="checkbox"/> 5625798	April 1997	Badders et al.	395/500

OTHER PUBLICATIONS

G. Schultz, "Linking Product Life Cycle Data to the Enterprise," Managing Automation, May, 1996, pp. 28-34.

ART-UNIT: 276

PRIMARY-EXAMINER: Grant; William

ASSISTANT-EXAMINER: Garland; Steven R.

ABSTRACT:

A method and system for transferring assembly data between a computer aided design computer system and a manufacturing computer system are provided. The system includes (1) first networking circuitry in the computer aided design computer system, (2) second networking circuitry in the manufacturing computer system and (3) communication circuitry for transferring assembly data from the first networking circuitry to the second networking circuitry. An execution of an interface application residing in the computer aided design computer system causes the communication circuitry to perform the transfer of the assembly data.

43 Claims, 117 Drawing figures

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L4: Entry 39 of 50

File: USPT

Mar 14, 2000

US-PAT-NO: 6038379

DOCUMENT-IDENTIFIER: US 6038379 A

TITLE: Data backup and restore system for a computer network having generic remote file system agents for providing backup and restore operations

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fletcher; Douglas J.	Longwood	FL		
DeVos; Steven Robert	Kirkland	WA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Seagate Technology, Inc.	Scotts Valley	CA			02

APPL-NO: 08/ 541954 [PALM]

DATE FILED: October 11, 1995

PARENT-CASE:

This application is a continuation of application Ser. No. 08/150,488, filed on Nov. 9, 1993, now abandoned.

INT-CL: [07] G06 F 13/00

US-CL-ISSUED: 395/200.6; 395/200.57, 395/200.79, 395/200.3, 395/610

US-CL-CURRENT: 709/230; 707/10, 709/200, 709/227, 709/249

FIELD-OF-SEARCH: 395/326, 395/610, 395/617, 395/200.6, 395/200.3, 395/200.57, 395/200.79

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4714995</u>	December 1987	Materna et al.	364/200
<u>5005122</u>	April 1991	Griffin et al.	364/200
<u>5133065</u>	July 1992	Cheffetz et al.	395/575
<u>5187787</u>	February 1993	Skeen et al.	395/600
<u>5291585</u>	March 1994	Sato et al.	395/500
<u>5301270</u>	April 1994	Steinberg et al.	395/326
<u>5339437</u>	August 1994	Yuen	395/700
<u>5485606</u>	January 1996	Midgley et al.	395/610
<u>5544229</u>	August 1996	Creswell et al.	379/67

OTHER PUBLICATIONS

IBM Technical Disclosure Bulletin, "Centralized and Rapid Backup/Restore For Work LAN File Services/VM", vol. 35, Aug. 1992, New York, US, pp. 286-289.
Rew and Davis, "Net CDF: An Interface for Scientific Data Access", PUB Jul. 1990, IEEE Com Graphics and Appl. Mag vol. 10-4.
R.K. Rew, NetCDF User's Guide Version 1.05, Unidata Program Center, Boulder, Col., Jan. 1990 Pub.

ART-UNIT: 272

PRIMARY-EXAMINER: Lee; Thomas C.

ASSISTANT-EXAMINER: Huang; Po C.

ABSTRACT:

A computer network having a number of workstations running disparate operating systems and a file server having a tape drive for backup and restore of data on the network. The file server runs a generic remote file system (GRFS) and workstations run GRFS agent programs which allow the GRFS file system to access data within a workstation having a given GRFS agent program. The GRFS file system interfaces with each GRFS agent program via a command/response paradigm, with the messages being structured to support the disparate operating systems for backup and restore, to allow data to be interchanged between the disparate operating systems, and to allow independent multiple users of the network to request simultaneously backup or restore.

24 Claims, 5 Drawing figures